

IN THE CLAIMS:

The following listing of the claims replaces all earlier listings and all earlier versions.

1. to 8. (Canceled)

9. (Currently Amended) A light emitting diode, comprising:
at least one light emitting diode die, arranged on a light emitting diode printed circuit board by means of a die attach, the light emitting diode printed circuit board comprising at a lower surface thereof rear side contacts, wherein the rear side contacts at least partially overlap with contours of the light emitting diode die and are formed in such a way as to overlap with at least half of the lower surface of the printed circuit board, and wherein the printed circuit board comprises a plurality of through-contacts thermally and electrically connecting the rear side contacts to contact areas formed on an upper surface of the printed circuit board.

10. (Currently Amended) [[A]] The light emitting diode according to of
claim 9, wherein the light emitting diode printed circuit board is a metal core printed circuit board, and wherein the light emitting diode die is located on the metal core.

11. (Withdrawn) A light emitting diode according to claim 9, wherein the light emitting diode printed circuit board is a metal core printed circuit board and wherein a non-linear isolator material layer is arranged between at least one of the contact areas and the metal core printed circuit board.

12. (Currently Amended) [[A]] The light emitting diode according to of claim 9[[,]] or 10, or 11, wherein the light emitting diode die is mounted face down on the light emitting diode printed circuit board.

13. (Currently Amended) A light emitting diode light source having comprising:

at least one light emitting diode, each being a light emitting diode according to claim 9 wherein each said diode comprises at least one light emitting diode die, arranged on a light emitting diode printed circuit board by means of a die attach, the light emitting diode printed circuit board comprising at a lower surface thereof rear side contacts, wherein the rear side contacts at least partially overlap with contours of the light emitting diode die and are formed in such a way as to overlap with at least half of the lower surface of the printed circuit board, and wherein the printed circuit board comprises a plurality of through-contacts thermally and electrically connecting the rear side contacts to contact areas formed on an upper surface of the printed circuit board, said diode being arranged on an additional board,

wherein the additional board comprises on [[its]] an upper surface thereof further contact areas which are soldered to the rear side contacts of the light emitting diode,

wherein a total surface area of the further contact areas is at least half of the area of the lower surface of the light emitting diode printed circuit board, and

wherein the additional board comprises a further plurality of through-contacts thermally and electrically connecting at least one of the further contact areas to a solder area formed at a lower surface of the additional board.

14. (Withdrawn) A light emitting diode light source according to claim 13, wherein a cooling body is located at a rear side of the additional board.

15. (Currently Amended) [[A]] The light emitting diode light source according to of claim 13 or 14, wherein at least one of the plurality of through-contacts [[has]] of the diode and at least one of the further plurality of through-contacts of the additional board have a diameter of less than 100 μm.